

Ahmed Mohamed Mamdouh

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EDUCATION

National University of Singapore (NUS) – Faculty of Science PHD student, Department of Pharmacy, *SINGA-NUS Scholarship*	August 2021 (ongoing)
Suez Canal University – Faculty of Pharmacy Master Degree, Department of Pharmacology & Toxicology	September 2018 - August 2021
Mansoura University - Faculty of Pharmacy Undergraduate student, B. SC. Pharmaceutical science Excellence with honor degree (89, 31 %)	September 2011 - June 2016
EI-Westany secondary school – Egypt Undergraduate student grade of 97.7 %	September 2008 - June 2011

RESEARCH EXPERIENCE

Dr. Shruti Bhatt's lab (National University of Singapore – PHD student)	August 2021 - Present
<ul style="list-style-type: none">Investigating the molecular mechanism of resistance to therapy in TP53 mutated AML.Test therapeutic strategies that overcome the emergence of resistant sub-clones in TP53 mutated AML.	
Department of Pharmacology & Toxicology (Suez Canal University – Master student)	September 2018 – August 2021
<ul style="list-style-type: none">Establishment of a rat model for hepatocellular carcinoma.In vitro and in vivo investigation of amygdalin (natural product) plus metformin in comparison to doxorubicin as a conventional chemotherapy drug.Spent 6 months doing bench work in molecular biology as a part of the practical work for master degree at the National Research center, Egypt.	

PUBLICATIONS

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- A.M. Mamdouh**, D.M. Khodeer, M.A. Tantawy, Y.M. Moustafa, In-vitro and in-vivo investigation of amygdalin, metformin, and combination of both against doxorubicin on hepatocellular carcinoma, Life Sci. 285 (2021) 119961. <https://doi.org/10.1016/j.lfs.2021.119961>.
 - Olesinski, E., Bhatia, K., **Mamdouh, A.M.**, et al. (2023). Targeting mitochondrial apoptotic priming state to personalize therapy for relapsed acute myeloid leukemia. (Under submission).

LABORATORY TECHNIQUES

- Drug screening	- Tissue Culture	- Western blot	- RNA Extraction
- Immunofluorescence	- Comet Assay	- Flow Cytometry.	- Immunoprecipitation

- Co-culture experiments
- Cell viability assays.
- PCR
- Scratch assay.
- Transfection
- ELISA
- Confocal and Fluorescence Imaging.
- In vivo techniques (Mice): I.P, S.C, I.V and oral drug administration
- BH3 Profiling

APPLICATIONS AND SOFTWARE

- Bio Render (Illustration tool)
- FACS Diva (Flow cytometry)
- Microsoft Excel
- Flow Jo (Flow cytometry)
- Graph pad Prism (Statistical software)
- Microsoft Word
- ImageJ (Image processing & Foci quantification)
- Microsoft PowerPoint

TEACHING ASSISTANT SKILLS

- Worked as a full time teaching assistant at Horus University in Egypt since 2016 to 2021 and during that time, I shared in teaching the practical courses related to **Analytical chemistry, Pharmaceutical technology, Pharmacognosy & Phytochemistry, Biochemistry, and Pharmacology.**
- Assist in teaching laboratory sessions in **PR2156 Integumentary & Ocular Systems: Science and Therapeutics** for **one semester** and **PHS3191 Laboratory Techniques in Pharmaceutical Science II** for **one semester** at Department of Pharmacy, National University of Singapore.

COURSE WORK

Subject	Credit hours	Grade
During Master		
- Biostatistics	2	A
- Computer Science	2	A
- English Language and Literature review	1	B
- Pharmacometrics	2	A
- Toxicometrics	2	B
- Immuno pharmacology and oncology	2	C
- Clinical Pharmacology	1	D
During PHD		
- Bioprocess Technology	4	B ⁺
- Graduate Seminar Module in Pharmacy	4	B ⁺
- Fundamental Topics in Pharmacy	4	A ⁻
- Pharmacoepidemiology	4	B